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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/617,669	07/17/2000	Eric P. Traut	MSFT-2118/304101.01	8184	
	7590 04/07/200 WASHBURN LLP (M	EXAMINER			
CIRA CENTRE	E, 12TH FLOOR	CHUONG, TRUC T			
2929 ARCH ST PHILADELPH	IA, PA 19104-2891		ART UNIT	PAPER NUMBER	
			2179		
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			04/07/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		A	pplication No.		Applicant(s)				
		0	9/617,669		TRAUT ET AL.				
Office Action Summary			kaminer		Art Unit				
		TF	RUC T. CHUONG		2179				
Period fo	The MAILING DATE of this commun r Reply	ication appear	s on the cover sheet	with the c	orrespondence ac	idress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRICT IN THE MINISTRICT	AILING DATE of 37 CFR 1.136(a) nunication. atutory period will ap will, by statute, cau:	OF THIS COMMUL In no event, however, may oply and will expire SIX (6) No se the application to become	NICATION A reply be time MONTHS from the ABANDONE	I. ely filed the mailing date of this of (35 U.S.C. § 133).				
Status									
1)[\	Responsive to communication(s) file	d on 26 Marc	h 2008						
·	•	<u> </u>	tion is non-final.						
<i>'</i> —		/ —		atters nro	secution as to the	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
	ciocca in accordance with the practi	oo undor Ex p	ano quayro, 1000 c). D . 11, 10	0.0.210.				
Dispositi	on of Claims								
4)🛛	Claim(s) <u>1-16 and 18-34</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-16, and 18-34</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restrict	tion and/or ele	ection requirement.						
Applicati	on Papers								
	The specification is objected to by the	- Evaminer							
-	-		ed or h) Ohiected	to by the F	yaminer				
الــــــــــــــــــــــــــــــــــــ	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			• , ,		, ,	ED 1 121/d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	Paper N						

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DETAILED ACTION

This communication is responsive to the RCE, filed 02/01/08.

In this communication, claims 1-16, and 18-34 are pending; 1, 8, 11-12, 21, 23, 30, and 33 are independent claims, and claims 1, 8, 11, 12, 21, 23, 30, and 33 are amended. This action is made non-final.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission (RCE) filed on 02/01/08, and Preliminary Amendment (APE) filed on 03/26/08 have been entered.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-10 are rejected under 35 U.S.C. 101 because claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory category. They are software, or they are, at best, functional descriptive material *per se*.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-6, 8-16, and 18-34 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jain et al. (hereinafter, "Jain", U.S. Patent No. 5,729,471).

As to claim 1, Jain teaches a computer system for running one or more software applications, wherein the software applications are suitable for generating a video output, the computer system comprising:

a host operating system suitable for displaying a graphical user interface (a system consists of a UNIX workstation using X-window and Motif on GUI, e.g., col. 20 lines 38-60, and figs. 15, 18-19A-D);

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multiple guest operating systems running on the single computer system (a central graphical workstation was used to control four video processing workstations, figs. 15 and 18, col. 30 lines 33-55) in virtual machines emulated by one or more emulator programs running on the host operating system {Jain inherently teaches this feature because the UNIX workstation system must have a register table or designated memory (virtual working space, memory, or machine) for storing information, process IDs, addresses of the slave workstations including their cameras in order to communicate/control the slave workstations, e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations; therefore, Jain inherently teaches the UNIX workstation system contains virtual machines emulated by one or more emulator programs running on the UNIX workstation. However, if Jain does not teach this feature, it would have been obvious to a person of ordinary skill in the art at the time of the invention to provide a capability of having virtual machines running in the UNIX workstation system of Jain to allow the user and the system flexibility to select/switch different formats or environments during viewing or editing processes}; and

wherein the host operating system is able to display a reduced-size <u>continually</u> updated representation of the video output of at least one operating system from the multiple <u>guest</u> operating systems that are being operated in a background mode (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claim 2, Jain teaches the computer system of claim 1, further comprising one or more virtual video memory components suitable for storing the video output of the operating systems (figs. 15, 18-19A-D).

As to claim 3, Jain teaches the computer system of claim 2, wherein the one or more of the video memory components are VRAM memory (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 4, Jain teaches the computer system of claim 2,

wherein the operating systems operating in a background mode are active (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations); and

wherein one or more thumbnail images for the operating systems are generated from the video information stored on the video memory components at predetermined intervals while the software applications are active (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations).

As to claim 5, Jain teaches the computer system of claim 4, wherein the predetermined intervals are such that the thumbnail images are real-time representations of the video output from the active software applications (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations).

As to claim 6, Jain teaches the computer system of claim 1, wherein the graphical user interface is a windowing environment suitable for displaying one or more windows (e.g., figs. 15, 18-19A-D); and

wherein the portion of the graphical user interface comprising the reduced-size representation is a window (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claim 8, it can be rejected under a similar rationale as claim 1 above.

As to claim 9, Jain teaches the computer system of claim 8, wherein the reduced-size representations are representations of the video outputs of the virtual machines that are being operated in a background mode (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claim 10, Jain teaches the computer system of claim 8, further comprising a virtual video memory associated with each of the virtual machines (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D); and

wherein the reduced-size representations are generated from the video information stored in the virtual video memory associated with each virtual machine (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claims 11-15, they can be rejected under a similar rationale as claim 1 above.

As to claim 16, it is a method claim of system claim 3. Note the rejection of claim 3 above.

As to claim 18, Jain teaches the method of claim 12 wherein the host operating system is able to display for a user reduced-size representations of the video output of each computer system being operated in a background mode (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claim 19, Jain teaches the method of claim 18 wherein the reduced-size representations are representations of the video outputs of the virtual machines that are being operated in the background mode (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

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As to claim 20, Jain teaches the method of claim 19 wherein the computer systems further comprises one or more virtual video memory components suitable for storing the video output of the computer systems (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claims 21 and 23, they are similar in scope to claim 1; therefore, they can be rejected under a similar rationale as claim 1 above.

As to claim 22, Jain teaches the method according to claim 21, wherein the thumbnail images are based on image data from video RAMs of the virtual machines (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 24, Jain teaches the method according to claim 23, further comprising concurrently displaying real time thumbnail videos of, respectively, the video outputs of the virtual machines (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 25, Jain teaches the method according to claim 23, wherein first thumbnail is derived from video RAM of the first virtual machine, and the second thumbnail is derived from video RAM of the second virtual machine (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 26, Jain teaches the method according to claim 23, further comprising allowing a user to interact with the thumbnails to control the virtual machines (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 27, Jain teaches the method according to claim 23, wherein displaying of the thumbnails is accomplished by accessing video RAMs of the virtual machines (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 28, Jain teaches the method according to claim 23, wherein the thumbnail images comprise reduced versions of images generated for display by the virtual machines (e.g., col. 33 line 29-col. 4 line 39, and figs. 17-21).

As to claim 29, Jain teaches the method according to claim 23, wherein the thumbnails reflect the video outputs of the virtual machines in real time (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations).

As to claim 30, it is similar in scope to claim 1 above.

As to claim 31, Jain teaches the method according to claim 30, the method further comprising:

determining display modes corresponding to, respectively, the video RAMs of the virtual machines; and generating the thumbnail images in accordance with the display modes (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D).

As to claim 32, Jain teaches the method according to claim 30, wherein the thumbnail images are displayed to reflect the video RAMs in real time (e.g., col. 30 line 33-col. 31 line 25, and figs. 15, 18-19A-D, and the UNIX workstation constantly displays for viewing or editing a live video/images broadcasting/feeding from the slave workstations).

As to claims 33-34, they are similar in scope to claim 1 above.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jain et al. (hereinafter, "Jain", U.S. Patent No. 5,729,471) in view of Brett (hereinafter, "Brett", U.S. Patent No. 5,850,471, cited with office action, mailed 01/03/2003).

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As to claim 7, Jain teaches the computer system of claim 1; however Jain does not teach that wherein the reduced-size representation is created using a bilinear sampling technique. Brett clearly describes the bilinear sampling technique in his High-definition Digital Video Processing System (Brett, col. 10 lines 58-74 and col. 11 lines 1-11). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have this data reduction feature of Brett's bilinear sampling technique into the modified system of Jain to improve performance and quality in graphic data loading process (Brett, e.g., col. 11 lines 1-10).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRUC T. CHUONG whose telephone number is (571)272-4134. The examiner can normally be reached on M-Th and alternate Fridays 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Truc T. Chuong

03/30/08

/Weilun Lo/ Supervisory Patent Examiner, Art Unit 2179